FIG.1
Background Art

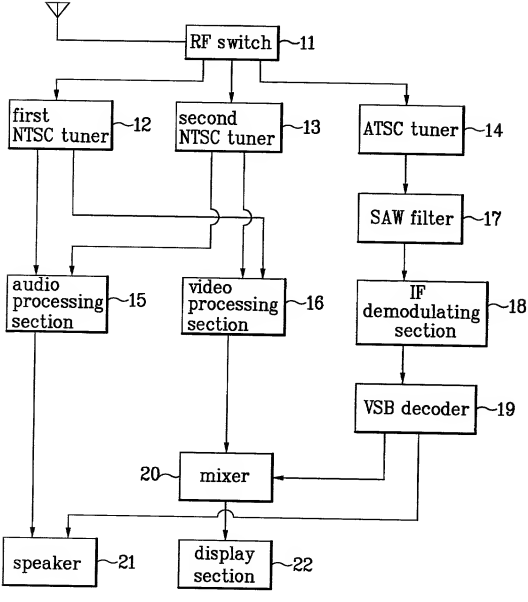


FIG.2

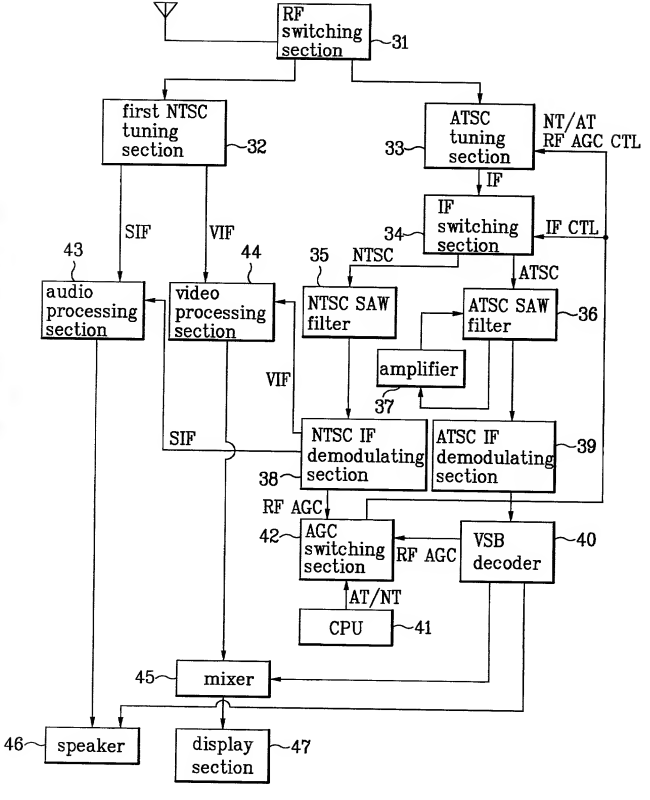
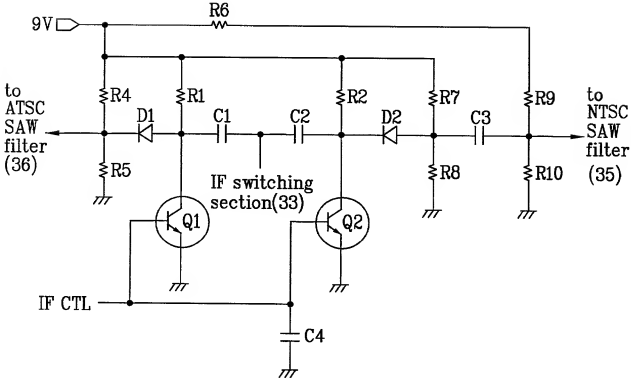

RF switching section
31
first NTSC tuning section
32
ATSC tuning section
33
NT/AT RF AGC CTL
IF
IF switching section
34
IF CTL
SIF
VIF
43
44
35
NTSC
ATSC
audio processing section
video processing section
NTSC SAW filter
ATSC SAW filter
36
amplifier
37
VIF
SIF
NTSC IF demodulating section
38
ATSC IF demodulating section
39
RF AGC
AGC switching section
42
RF AGC
VSB decoder
40
AT/NT
CPU
41
45
mixer
46
speaker
display section
47

FIG.3


9V
R6
to
ATSC
SAW
filter
(36)
R4
D1
R1
C1
C2
R2
D2
R7
C3
R9
to
NTSC
SAW
filter
(35)
R5
IF switching
section(33)
R8
R10
Q1
Q2
IF CTL
C4